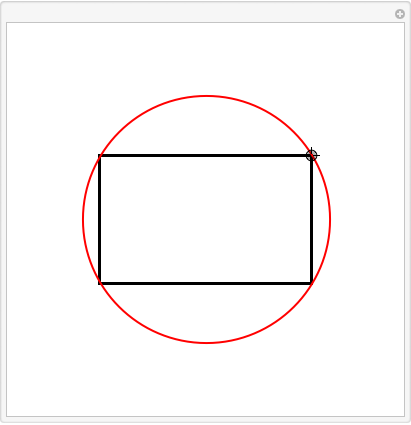
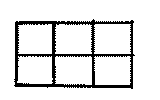
**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Pre-Algebra**

**The following problems are due Monday, December 8th. You may use any resource to solve these problems except if that resource is a person. You have been previously taught these standards. On Thursday of this week I will set aside time to answer any specific questions. NOTE: You can always ask any questions prior to school or at lunch. YOU MUST SHOW ALL WORK!**

1.) A 5 inch by 12 inch rectangle is inscribed in circle. What is the circumference of the circle? Give exact answer.

2.) Seventeen out of eighty-five M&M’s in every pack are red. If there are 45 identical bags of M&M’s, and you pick one M&M from each bag, how many times would you expect the one picked to be red?

3.) In the figure below, the large rectangle is divided into six identical small squares. If the perimeter of the large rectangle is 40 inches, what is the perimeter of one of the small squares?



4.) If 16 is the average (arithmetic mean) of *x, x,* 8, 22, 24 then *x* =

5.) Find the product of the following: 

Give your answer in scientific notation.

6.) Mark the Shark can mow 4 lawns in every 11 hours. At this rate, how many hours would it take Mark the Shark to mow ten lawns?

7.) Below are two similar hearts. One is a human heart. The other heart belongs to the Grinch. The length of the human heart is 10 inches. What is the width *x* of the human heart.

*x*

